S Hajir Bahrami

List of Publications by Citations

109 papers	3,645 citations	36 h-index	57 g-index
114 ext. papers	4,338 ext. citations	4.3 avg, IF	6.05 L-index

#	Paper	IF	Citations
109	Novel biocompatible composite (Chitosan-zinc oxide nanoparticle): preparation, characterization and dye adsorption properties. *Colloids and Surfaces B: Biointerfaces*, **2010**, 80, 86-93	6	212
108	Antibacterial performance and in vivo diabetic wound healing of curcumin loaded gum tragacanth/poly(ε-caprolactone) electrospun nanofibers. *Materials Science and Engineering C*, **2016**, 69, 1183-91	8.3	170
107	Equilibrium and kinetic adsorption study of a cationic dye by a natural adsorbent--silkworm pupa. *Journal of Hazardous Materials*, **2007**, 139, 167-74	12.8	135
106	Electrospinning of PLGA/gum tragacanth nanofibers containing tetracycline hydrochloride for periodontal regeneration. *Materials Science and Engineering C*, **2016**, 58, 521-31	8.3	126
105	Electrospun curcumin loaded poly(ε-caprolactone)/gum tragacanth nanofibers for biomedical application. *International Journal of Biological Macromolecules*, **2016**, 84, 448-56	7.9	118
104	Dye removal from colored textile wastewater using chitosan in binary systems. *Desalination*, **2011**, 267, 64-72	10.3	111
103	Fabrication of novel nanofiber scaffolds from gum tragacanth/poly(vinyl alcohol) for wound dressing application: in vitro evaluation and antibacterial properties. *Materials Science and Engineering C*, **2013**, 33, 4935-43	8.3	105
102	Preparation, characterization and dye adsorption properties of biocompatible composite (alginate/titania nanoparticle). *Desalination*, **2011**, 275, 93-101	10.3	87
101	Smart electrospun nanofibers containing PCL/gelatin/graphene oxide for application in nerve tissue engineering. *Materials Science and Engineering C*, **2019**, 103, 109768	8.3	84
100	Solution polymerization of acrylonitrile with vinyl acids in dimethylformamide. *Journal of Applied Polymer Science*, **1996**, 59, 1539-1550	2.9	82
99	Fabrication and characterization of PVA/Gum tragacanth/PCL hybrid nanofibrous scaffolds for skin substitutes. *International Journal of Biological Macromolecules*, **2017**, 94, 679-690	7.9	80
98	Electrospinning of poly(vinyl alcohol)-water-soluble quaternized chitosan derivative blend. *Carbohydrate Research*, **2009**, 344, 2496-501	2.9	80
97	Interactions of gemini cationic surfactants with anionic azo dyes and their inhibited effects on dyeability of cotton fabric. *Dyes and Pigments*, **2007**, 72, 331-338	4.6	80
96	Radiation grafting of styrene onto polypropylene fibres by a 10 MeV electron beam. *Radiation Physics and Chemistry*, **2007**, 76, 787-793	2.5	76
95	Thermal behavior of acrylonitrile carboxylic acid copolymers. *Journal of Applied Polymer Science*, **2003**, 88, 685-698	2.9	74
94	Environmentally friendly surface modification of silk fiber: Chitosan grafting and dyeing. *Applied Surface Science*, **2009**, 255, 4171-4176	6.7	70
93	Development of biodegradable electrospun gelatin/aloe-vera/poly(ε-caprolactone) hybrid nanofibrous scaffold for application as skin substitutes. *Materials Science and Engineering C*, **2018**, 93, 367-379	8.3	69

92	Grafting of chitosan as a biopolymer onto wool fabric using anhydride bridge and its antibacterial property. *Colloids and Surfaces B: Biointerfaces*, **2010**, 76, 397-403	6	69
91	Novel biosorbent (Canola hull): Surface characterization and dye removal ability at different cationic dye concentrations. *Desalination*, **2010**, 264, 134-142	10.3	68
90	Application of heterogeneous nano-semiconductors for photocatalytic advanced oxidation of organic compounds: A review. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103283	6.8	67
89	Drug release and biodegradability of electrospun cellulose nanocrystal reinforced polycaprolactone. *Materials Science and Engineering C*, **2019**, 94, 929-937	8.3	67
88	Development of nanofibrous scaffolds containing gum tragacanth/poly (□caprolactone) for application as skin scaffolds. *Materials Science and Engineering C*, **2015**, 48, 71-9	8.3	66
87	Adsorption of binary mixtures of cationic dyes. *Dyes and Pigments*, **2008**, 76, 784-791	4.6	64
86	Facile synthesis of Fe 3 O 4 nanoparticles via aqueous based electro chemical route for heterogeneous electro-Fenton removal of azo dyes. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 71, 91-105	5.3	60
85	Effect of coagulation conditions on properties of poly(acrylonitrile□arboxylic acid) fibers. *Journal of Applied Polymer Science*, **2003**, 89, 1825-1837	2.9	57
84	Fabrication, optimization and characterization of electrospun poly(caprolactone)/gelatin/graphene nanofibrous mats. *Materials Science and Engineering C*, **2017**, 78, 218-229	8.3	56
83	Effect of Changing Solvents on Poly(-Caprolactone) Nanofibrous Webs Morphology. *Journal of Nanomaterials*, **2011**, 2011, 1-10	3.2	55
82	Synthesis, spectral properties and application of novel monoazo disperse dyes derived from N-ester-1,8-naphthalimide to polyester. *Dyes and Pigments*, **2008**, 76, 684-689	4.6	53
81	Gum tragacanth/poly(l-lactic acid) nanofibrous scaffolds for application in regeneration of peripheral nerve damage. *Carbohydrate Polymers*, **2016**, 140, 104-12	10.3	49
80	Investigation of morphological, mechanical and biological properties of cellulose nanocrystal reinforced electrospun gelatin nanofibers. *International Journal of Biological Macromolecules*, **2019**, 124, 411-417	7.9	42
79	Fabrication of curcumin-loaded gum tragacanth/poly(vinyl alcohol) nanofibers with optimized electrospinning parameters. *Journal of Industrial Textiles*, **2017**, 46, 1170-1192	1.6	41
78	Fabrication and characterization of PCL/gelatin/curcumin nanofibers and their antibacterial properties. *Journal of Industrial Textiles*, **2016**, 46, 562-577	1.6	39
77	Fabrication of nano-structured electrospun collagen scaffold intended for nerve tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 1555-67	4.5	39
76	Dye adsorption and desorption properties of Mentha pulegium in single and binary systems. *Journal of Applied Polymer Science*, **2011**, 122, 1489-1499	2.9	37
75	Multilayer nanofibrous patch comprising chamomile loaded carboxyethyl chitosan/poly(vinyl alcohol) and polycaprolactone as a potential wound dressing. *International Journal of Biological Macromolecules*, **2020**, 147, 547-559	7.9	36

74	Tissue engineered poly(caprolactone)-chitosan-poly(vinyl alcohol) nanofibrous scaffolds for burn and cutting wound healing. *IET Nanobiotechnology*, **2014**, 8, 123-31	2	36
73	Fabricating alginate/poly(caprolactone) nanofibers with enhanced bio-mechanical properties via cellulose nanocrystal incorporation. *Carbohydrate Polymers*, **2020**, 233, 115873	10.3	35
72	Oxidation of dyes from colored wastewater using activated carbon/hydrogen peroxide. *Desalination*, **2011**, 279, 183-189	10.3	34
71	Photocatalytic discoloration of Acid Red 14 aqueous solution using titania nanoparticles immobilized on graphene oxide fabricated plate. *Chemosphere*, **2016**, 159, 293-299	8.4	33
70	Decomposition and decoloration of a direct dye by electron beam radiation. *Radiation Physics and Chemistry*, **2010**, 79, 33-35	2.5	33
69	Electrical stimulation of somatic human stem cells mediated by composite containing conductive nanofibers for ligament regeneration. *Biologicals*, **2017**, 46, 99-107	1.8	29
68	Effect of novel blend nanofibrous scaffolds on diabetic wounds healing. *IET Nanobiotechnology*, **2016**, 10, 1-7	2	28
67	The effect of pH on the removal of anionic dyes from colored textile wastewater using a biosorbent. *Journal of Applied Polymer Science*, **2011**, 120, 2996-3003	2.9	25
66	Coaxial nanofibers from poly(caprolactone)/ poly(vinyl alcohol)/Thyme and their antibacterial properties. *Journal of Industrial Textiles*, **2018**, 47, 834-852	1.6	23
65	Properties of polyacrylonitrile-N-(2-hydroxy) propyl-3-trimethylammonium chitosan chloride blend films and fibers. *Journal of Applied Polymer Science*, **2008**, 109, 545-554	2.9	23
64	Comparative study of GO and reduced GO coated graphite electrodes for decolorization of acidic and basic dyes from aqueous solutions through heterogeneous electro-Fenton process. *Journal of Environmental Chemical Engineering*, **2017**, 5, 2313-2324	6.8	21
63	Modification of wool fabric using prepared chitosan-cyanuric chloride hybrid. *Journal of the Textile Institute*, **2015**, 106, 80-89	1.5	21
62	Cinnamon extract loaded electrospun chitosan/gelatin membrane with antibacterial activity. *International Journal of Biological Macromolecules*, **2021**, 173, 580-590	7.9	21
61	PCL-based nanofibers loaded with ciprofloxacin/cyclodextrin containers. *Journal of the Textile Institute*, **2018**, 109, 1044-1053	1.5	21
60	In vitro and in vivo studies of biaxially electrospun poly(caprolactone)/gelatin nanofibers, reinforced with cellulose nanocrystals, for wound healing applications. *Cellulose*, **2020**, 27, 5179-5196	5.5	20
59	Eco-friendly grafting of natural biopolymer chitosan onto acylated wool fabrics using ultrasonic and study its properties. *Journal of Applied Polymer Science*, **2013**, 129, 707-713	2.9	20
58	Fish Bone as a Low-Cost Adsorbent for Dye Removal from Wastewater: Response Surface Methodology and Classical Method. *Environmental Modeling and Assessment*, **2013**, 18, 661-670	2	20
57	Isotherm, Kinetic, and Thermodynamic of Cationic Dye Removal from Binary System by Feldspar. *Separation Science and Technology*, **2012**, 47, 1660-1672	2.5	19

56	Fabrication of tungsten oxide nanofibers via electrospinning for gasochromic hydrogen detection. *Sensors and Actuators B: Chemical*, **2018**, 268, 319-327	8.5	17
55	Preparation and characterization of electrospun polyethersulfone/polyvinylpyrrolidone-zeolite core□shell composite nanofibers for creatinine adsorption. *Separation and Purification Technology*, **2021**, 257, 117881	8.3	17
54	The influence of graphene reinforced electrospun nano-interlayers on quasi-static indentation behavior of fiber-reinforced epoxy composites. *Fibers and Polymers*, **2017**, 18, 322-333	2	16
53	Ultrasonic mediated production of carboxymethyl cellulose: Optimization of conditions using response surface methodology. *Carbohydrate Polymers*, **2015**, 134, 278-84	10.3	16
52	Modification of carbon nanotubes with cationic surfactant and its application for removal of direct dyes. *Desalination and Water Treatment*, **2014**, 52, 4356-4368		16
51	Low-velocity impact performance of nanofiber-interlayered aramid/epoxy nanocomposites. *Composites Part B: Engineering*, **2019**, 173, 106975	10	15
50	Preparation and characterization of chitosan/feldspar biohybrid as an adsorbent: optimization of adsorption process via response surface modeling. *Scientific World Journal, The*, **2014**, 2014, 370260	2.2	15
49	Preparation of polyacrylonitrile and cellulose acetate blend fibers through wet-spinning. *Journal of Applied Polymer Science*, **2007**, 103, 2000-2005	2.9	15
48	Investigation on polyacrylonitrile/cellulose acetate blends. *Macromolecular Research*, **2007**, 15, 605-609	1.9	15
47	Thermal and rheological behavior of acrylonitrile□arboxylic acid copolymers and their metal salt complexes. *Journal of Applied Polymer Science*, **1999**, 74, 567-582	2.9	15
46	Decoloration and mineralization of reactive dyes using electron beam irradiation, Part I: Effect of the dye structure, concentration and absorbed dose (single, binary and ternary systems). *Radiation Physics and Chemistry*, **2012**, 81, 851-856	2.5	14
45	A new cellulose purification approach for higher degree of polymerization: Modeling, optimization and characterization. *Carbohydrate Polymers*, **2016**, 152, 280-286	10.3	14
44	Introduction of amine terminated dendritic structure to graphene oxide using Poly(propylene Imine) dendrimer to evaluate its organic contaminant removal. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 71, 285-297	5.3	13
43	Effects of porosity gradient of multilayered electrospun nanofibre mats on air filtration efficiency. *Journal of the Textile Institute*, **2017**, 108, 1563-1571	1.5	13
42	Electrospun PCL and PLA hybrid nanofibrous scaffolds containing Nigella sativa herbal extract for effective wound healing. *Journal of Applied Polymer Science*, **2020**, 137, 49528	2.9	13
41	Halochromic Chemosensor From Poly(acrylonitrile)/Phenolphthalein Nanofibers as pH Sensor. *IEEE Sensors Journal*, **2016**, 16, 873-880	4	13
40	Elimination of hazardous methylene blue from contaminated solutions by electrochemically magnetized graphene oxide as a recyclable adsorbent. *Advanced Powder Technology*, **2019**, 30, 2352-2362	4.6	13
39	PCL-based nanofibers containing ibuprofen/cyclodextrins nanocontainers: A potential candidate for drug delivery application. *Journal of Industrial Textiles*, **2019**, 48, 1420-1438	1.6	12

38	Surfactant-modified feldspar: Isotherm, kinetic, and thermodynamic of binary system dye removal. *Journal of Applied Polymer Science*, **2012**, 126, 340-349	2.9	11
37	Removal of Disperse Blue 56 and Disperse Red 135 dyes from aqueous dispersions by modified montmorillonite nanoclay. *Chemical Industry and Chemical Engineering Quarterly*, **2017**, 23, 21-29	0.7	11
36	Quasi-static indentation response of aramid fiber/epoxy composites containing nylon 66 electrospun nano-interlayers. *Journal of Industrial Textiles*, **2018**, 47, 960-977	1.6	10
35	Feldspar/titanium dioxide/chitosan as a biophotocatalyst hybrid for the removal of organic dyes from aquatic phases. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	10
34	Kinetics studies on copolymerization of acrylonitrile vinyl acids by solvent□water suspension polymerization. *Journal of Applied Polymer Science*, **2005**, 97, 1284-1291	2.9	10
33	Field Evaluation of Permethrin-treated Military Uniforms Against Anopheles stephensi and 4 species of Culex (Diptera:Culicidae) in Iran. *Journal of Entomology*, **2006**, 3, 108-118	0.3	9
32	Biomimetic double-sided polypropylene mesh modified by DOPA and ofloxacin loaded carboxyethyl chitosan/polyvinyl alcohol-polycaprolactone nanofibers for potential hernia repair applications. *International Journal of Biological Macromolecules*, **2020**, 165, 902-917	7.9	9
31	Synthesis and Characterization of Novel Monoazo N-Ester-1,8-Naphthalimide Disperse Dyestuffs. *Journal of the Chinese Chemical Society*, **2007**, 54, 1021-1028	1.5	8
30	Fabrication and characterization of chitosan-polycaprolactone core-shell nanofibers containing tetracycline hydrochloride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 636, 128163	5.1	8
29	Modification of Nickel Ferrite with Cationic Surfactant: Dye Removal from Textile Wastewater Using Magnetic Separation. *Journal of Environmental Engineering, ASCE*, **2015**, 141, 05014006	2	7
28	Filtration performance of cigarette filter tip containing electrospun nanofibrous filter. *Journal of Industrial Textiles*, **2015**, 45, 187-198	1.6	7
27	Modeling and optimization of Photocatalytic Decolorization of binary dye solution using graphite electrode modified with Graphene oxide and TiO. *Journal of Environmental Health Science & Engineering*, **2020**, 18, 51-62	2.9	7
26	Cellulose fabric with enhanced water absorbance and permeability using microwave radiation: modeling and optimization by RSM. *Journal of the Textile Institute*, **2019**, 110, 117-123	1.5	7
25	Synthesis and Characterization of Exopolysaccharide Encapsulated PCL/Gelatin Skin Substitute for Full-Thickness Wound Regeneration. *Polymers*, **2021**, 13,	4.5	7
24	Functional hydrophilic highly biodegradable PCL nanofibers through direct aminolysis of PAMAM dendrimer. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2020**, 69, 1069-1080	3	7
23	Novel Blend Scaffolds from Poly(caprolactone)Chitosan-Poly(vinyl alcohol): Physical, Morphological and Biological Studies. *Journal of Biomaterials and Tissue Engineering*, **2014**, 4, 245-252	0.3	6
22	Cellulose nanocrystal effect on crystallization kinetics and biological properties of electrospun polycaprolactone. *Materials Science and Engineering C*, **2021**, 121, 111855	8.3	6
21	Poly (e-caprolactone)-chitosan-poly (vinyl alcohol) nanofibrous scaffolds for skin excisional and burn wounds in a canine model. *IET Nanobiotechnology*, **2018**, 12, 619-625	2	6

20	Effect of comonomer on the viscoelastic behavior of co-poly (acrylonitrile) solutions. *Journal of Polymer Research*, **2016**, 23, 1	2.7	5
19	Graft Copolymerization of 2-Hydroxyethyl Methacrylate (HEMA) on Persian Silk Yarn. *Research Journal of Textile and Apparel*, **2005**, 9, 1-11	1.1	5
18	The effect of electrospinning parameters on the morphology of glass nanofibers. *Journal of the Textile Institute*, **2020**, 111, 941-949	1.5	5
17	Electrical conductivity of vapor-grown carbon nanofiber/polyester textile-based composites. *Journal of Applied Polymer Science*, **2013**, 130, 3009-3017	2.9	4
16	Synthesis and Characterization of Phenylalanine Nanotubes as Green pH-Responsive Drug Nanocarriers. *ChemistrySelect*, **2020**, 5, 12570-12581	1.8	4
15	Nano-curcumin/graphene platelets loaded on sodium alginate/polyvinyl alcohol fibers as potential wound dressing. *Journal of Applied Polymer Science*, **2021**, 138, 50884	2.9	4
14	Optimization, kinetics, equilibrium, and thermodynamic investigation of cationic dye adsorption on the fish bone. *Desalination and Water Treatment*, **2015**, 53, 2249-2259		3
13	Magnetization of TiO2 nanofibrous spheres by one-step ultrasonic-assisted electrochemical technique. *Journal of Molecular Liquids*, **2018**, 265, 251-259	6	3
12	Fabrication of multifunctional mucoadhesive buccal patch for drug delivery applications. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 2640-2656	5.4	3
11	PVA nanofibers containing ofloxacin/□cyclodextrin inclusion complexes: improve ofloxacin water solubility. *Journal of the Textile Institute*, **2020**, 111, 669-681	1.5	3
10	Antibacterial and biological properties of coconut oil loaded poly(□caprolactone)/gelatin electrospun membranes. *Journal of Industrial Textiles*,152808372199159	1.6	3
9	Co-electrospinning of lignocellulosic nanoparticles synthesized from walnut shells with poly(caprolactone) and gelatin for tissue engineering applications. *Cellulose*, **2021**, 28, 4943-4957	5.5	2
8	A comparison between solvent casting and electrospinning methods for the fabrication of neem extract-containing buccal films. *Journal of Industrial Textiles*,152808372110277	1.6	2
7	Study on release of cardamom extract as an antibacterial agent from electrospun scaffold based on sodium alginate. *Journal of the Textile Institute*, **2021**, 112, 1482-1490	1.5	2
6	A novel electrochemical immunosensor for ultrasensitive detection of tumor necrosis factor □ based on polystyrene - PAMAM dendritic polymer blend nanofibers. *Microchemical Journal*, **2022**, 175, 107206	4.8	1
5	Novel platform based on polystyrene electrospun nanofibrous mats doped with PAMAM dendritic polymer for enhanced immunosensing. *Applied Surface Science*, **2022**, 579, 152221	6.7	0
4	The Effect of Bulk Electrospun Polycaprolactone-graphene Oxide Scaffold on the Healing of Defected Femur Cartilage on a Rabbit Model. *Fibers and Polymers*, **2021**, 22, 1247-1255	2	0
3	OPTIMIZATION OF THE COMBINED UV/ELECTROCOAGULATION PROCESS FOR DYE REMOVAL FROM TEXTILE WASTEWATER USING RESPONSE SURFACE METHODOLOGY. *Environmental Engineering and Management Journal*, **2016**, 15, 189-198	0.6	

2	OPTIMIZATION OF THE COMBINED UV/ELECTROCOAGULATION PROCESS FOR DYE REMOVAL FROM TEXTILE WASTEWATER USING RESPONSE SURFACE METHODOLOGY. *Environmental Engineering and Management Journal*, **2016**, 15, 189-198	0.6
1	Effect of glass nanofibers on mode I interlaminar fracture toughness of glass/epoxy composites. *Journal of the Textile Institute*,1-8	1.5